

United States Patent and Trademark Office

A

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/175,178	10/20/1998	SARVAR PATEL	13-1	6600
46290 7	590 10/19/2005		EXAMINER	
	MORGAN & AMERSO	PERUNGAVOOR, VENKATANARAY		
10333 RICHMOND, SUITE 1100 HOUSTON, TX 77042		ART UNIT	PAPER NUMBER	
			2132	

DATE MAILED: 10/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/175,178	PATEL ET AL.
Office Action Summary	Examiner	Art Unit
·	Venkatanarayanan Perungavoor	2132
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v. - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE!	J. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ⊠ Responsive to communication(s) filed on <u>27 O</u> 2a) □ This action is FINAL . 2b) ⊠ This 3) □ Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) 1-3 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-3 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o Application Papers 9) ⊠ The specification is objected to by the Examine 10) ⊠ The drawing(s) filed on 20 October 1998 is/are	r election requirement. er.	to by the Examiner.
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) Notice of References Cited (PTO-892) Discrete Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 19 19 19 19 19 19 19 19	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

Application/Control Number: 09/175,178 Page 2

Art Unit: 2132

DETAILED ACTION

Specifications

- On Page 1 and Page 2 the Applicant mentions Pr[h(m₁) = h(m₂)] ≤ ε, Pr[h(m₁) h(m₂) = Δ] ≤ ε, Pr[h(m₁) = c₁, h(m₂) = c₂] ≤ ε then later mentions x₁ and x₂. The
 Examiner believes the above m₁ and m₂ should be corrected to x₁ and x₂.
- 2. On page 3 and the subsequent mention of modular operation should follow the following format: mod p, mod 2¹; instead of mod_p, mod₂¹.
- 3. On Page 7(Ln 20- Page 8 Ln 2) and Page 8(Ln 11-26), the Examiner believes the ε should not be there, which could easily be confused with the ε stated earlier indicating a epilison, but believes the Applicant meant the "belongs in" ε.
- 4. On Page 8 Ln 26, Equation (9) contains |, which the Examiner believes is in error.
- 5. On Page 7 Equation (3), the Applicant mentions "n" in quotes, which is in error, the quotes around n should be removed.
- 6. On Page 8, Equation (6), is missing a terminating bracket ']'.

Application/Control Number: 09/175,178

Art Unit: 2132

7. On Page 7, Equation (4) and Page 8 Equation (9) are not self revealing. The Examiner believes the applicant has omitted some steps in reaching the conclusion, or has taken a shortcut the Examiner(one with ordinary skill in art) is unaware of. Otherwise, Equation (4) and Equation (9) are unsupported. And further the conclusion of Equation (9) is incorrect, how does one get R², R is being defined as a abelian group, and R² has no meaning.

Page 3

Claim Rejections - 35 USC § 101

8. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

9. The claimed invention is directed to non-statutory subject matter. The instant claims disclose method of shortened representation of a collection of bits which represents mathematical algorithms see MPEP 2106, IV, B, 1.

Claim Rejections - 35 USC § 102

- 10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

 A person shall be entitled to a patent unless
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 11. Claim 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Schenier.

Application/Control Number: 09/175,178

Art Unit: 2132

12. Regarding Claims 1-3, Schenier discloses a hashing method of Jueneman where $H_i = (H_{i-1} + M_i)^2 \mod p$ see Page 457, and also IBC hash discloses the additional $h_i = ((M_i \mod p) + v) \mod 2^n$ see Page 458.

Page 4

Conclusion

- 13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Venkatanarayanan Perungavoor whose telephone number is 571-272-7213. The examiner can normally be reached on 8-4:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 14. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 2132

i/l/ 10/3/2005 Venkatanarayanan Perungavoor Examiner Art Unit 2132

GILBERTO BARRON TRANSPORT SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100